

Technologies Explained – IXUS 130 IXUS 105

EMBARGO: 8th February, 2010, 15:00 CET

Optical Image Stabilizer

Canon's highly-effective optical Image Stabilizer technology prevents image blur by dramatically reducing the effects of camera shake. In situations where image blur due to camera shake is more likely – such as in darker conditions or when shooting with the zoom extended – the optical Image Stabilizer can help images remain sharp through minute vibration gyros which detect camera movement caused by hand shake. These signals are processed by a single-chip IS controller, which discriminates between hand shake and intentional camera movements. Signals are then sent to the IS unit, which moves one of the lens elements accordingly to re-align the light rays and cancel out the effects of camera shake.

Smart Auto mode and i-Contrast

Smart Auto mode uses Scene Detection Technology to determine the shooting scene by analysing subject brightness, contrast, distance and overall hue. The camera then selects the scene type from 22 variables (IXUS 130) or 18 variables (IXUS 105), applying the best settings for optimum output. In Smart Auto mode, a colour icon indicating the type of scene detected – and the lighting conditions of the scene - is shown on the LCD monitor. Smart Auto includes i-Contrast, which reveals greater detail in darker and brightly lit regions, without blowing out correctly exposed parts of the image. i-Contrast can also be used in playback to expose greater detail after the shot has been taken.

Auto ISO with Motion Detection Technology

Auto ISO mode, using Motion Detection Technology, calculates the movement of the camera and subject as well as the speed at which the motion occurs. ISO sensitivity and shutter speed are then automatically adjusted to deliver minimum blur and maximum image quality in any situation.

Face Detection Technology

Face Detection Technology makes it easy to produce superb people shots. This advanced system quickly and accurately detects faces in a scene – then optimises camera settings so that everyone looks their best. With the ability to detect up to 35 faces in one frame, it's great for group photos as well as portraits.

Both models feature the following Face Detection Technologies:

- **Face Detection AF:** Sets the focus on faces in people shots – not just the closest subject.
- **Face Detection AE:** Optimises exposure for faces in all lighting conditions – useful for backlit scenes or indoor shooting.
- **Face Detection FE:** Guards against washed-out faces when using the camera's flash – perfect for close-up shots in restaurants, clubs or other dimly lit locations.
- **Face Detection WB:** Optimises white balance for natural-looking skin tones which remain true to life regardless of skin colour and lighting conditions.
- **FaceSelf-Timer:** Allows perfect group shots or self portraits by automatically triggering the shutter two seconds after a new face has entered the frame.
- **Red-Eye Correction:** Automatically eliminates the unwanted effects of flash photography immediately after the shot is taken. At the touch of a button in playback, natural-looking eyes can be instantly restored.

Smart Flash Exposure

Smart Flash Exposure feature intelligently controls the power and usage of the onboard flash to ensure natural results in a variety of conditions. By using focusing distance as well as shooting scene information, an optimum balance between the ambient light of the scene and flash power is achieved. When shooting in very bright conditions shadows, which can appear on a subject's face, are detected by the camera and flash can be used to eliminate them. When shooting at close distances, overexposure is avoided by sensing how reflective the subject is, and reducing the flash power to compensate for the close shooting distance.

DIGIC 4 Processor

Canon's DIGIC 4 (Digital Imaging Core) processor manages all of the camera's primary functions to optimise operating efficiency. Its advanced image processing algorithms deliver superb image detail and colour reproduction with accurate white balance and minimal noise while its high-speed operation results in exceptional responsiveness and rapid auto focus.

SDXC Card

The IXUS 130 and IXUS 105 support the latest SDXC memory cards, providing up to 2TB of storage. With SDXC memory cards, more content can be stored on a single card than ever before and movies and images can be shot without having to change cards.

IXUS 130

The IXUS 130 features the following additional technologies.

PureColor II G LCD screen

The 6.9cm (2.7"), 230k dot, PureColor II G LCD screen has been designed to enhance the capture and playback of images and video. The screen is constructed with a tempered glass layer which removes the need for an air gap between the LCD and the outer surface – reducing internal reflection within the screen and improving brightness and visibility. A wide viewing angle makes it easier to shoot from awkward positions or share images with others.

Smart Shutter

Smart Shutter mode uses Face Detection Technology to allow users to take both group shots and self-portraits easily and in a more relaxed way. Besides FaceSelf-Timer, two other modes are also available:

- **Smile Detection:** Triggers the shutter when the camera detects a smiling face within the frame.
- **Wink Self-Timer:** Triggers the shutter two seconds after the subject in the frame has winked, removing the need for a remote control.

Smart Shuffle

Smart Shuffle is a creative way for users to browse through photos stored in their collection. Based on having 50 or more images, the camera suggests four other pictures to the one currently being viewed for the user to choose from. After selecting one of the suggestions, another set of four is offered (one of which being the previous image viewed). This function provides a fresh angle to looking at stored pictures.

HD Movies and HDMI

HD movie recording allows the user to shoot movies at 720p HD, which can then be viewed on an HDTV screen via the HDMI mini connection port. The HDMI mini connection ensures there is no loss of quality when playing back stills or movies.

Blink Detection

Blink Detection Technology uses Face Detection to detect whether someone's eyes were shut when the shot was taken – quickly allowing users to re-shoot the image. A frame is displayed during record review on the face of the person whose eyes were closed, and the “Blink icon” is displayed to the right on the LCD monitor.

Servo AF/AE

When a subject is moving towards or away from the camera and the shutter is half-pressed, Servo AF/AE will track it continuously - ensuring that the subject is in focus and well-exposed when the shutter is finally pressed.